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BT—05—2016

FACULTY OF COMPUTER STUDIES

M.Sc. (Second Year) (Fourth Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(CBCS Pattern)

SOFTWARE ENGINEERING

(Data Mining)

(Thursday, 17-11-2016) **Time : 2.00 p.m. to 5.00 p.m.**

Time—3 *Hours* *Maximum Marks*—75

N.B. :— (*i*) *All* questions are compulsory.

(*ii*) Write answers brief and to the point.

1. Attempt any *three* of the following : 15

   (*a*) Explain any *five* basic data mining tasks.

   (*b*) Explain CURE Algorithm.

   (*c*) What is Regression ? Explain.

   (*d*) State and explain Bayes theorem.

   (*e*) Explain K-means clustering.

2. Answer the following (any *three*) : 15

   (*a*) Explain squared error clustering.

   (*b*) Explain KDD process.

   (*c*) Explain OLTP systems.

   (*d*) Explain web content mining.

3. Solve the following (any *three*) : 15

   (*a*) Explain K-nearest neighbour algorithm.

   (*b*) Explain data mining issues.

   (*c*) Explain Hypothesis testing.

   (*d*) Explain web usage mining.

P.T.O.

4. Answer the following (any *three*) : 15

(*a*) Explain BIRCH Algorithm.

(*b*) Explain web structure mining.

(*c*) Explain Data Mining Metrics.

(*d*) Explain simple distance based Algorithm for classification.

5. Write short notes on any *three* : 3×5=15

(*a*) Outlier

(*b*) Visualization techniques

(*c*) Minimum spanning tree

(*d*) Data warehousing

(*e*) Information Retrieval system.